

PadhAI: Representation Power of Functions

One Fourth Labs

Summary

We need to start dealing with complex real-world data and functions

1. Here are some of the takeaways of this chapter
 - a. Data: Real inputs
 - b. Task: non-linear Classification
 - c. Model: Deep Neural Network
 - d. Loss: $\sum_i (y_i - \hat{y}_i)^2$
 - e. Learning: $w = w + \eta \frac{\partial L}{\partial w}$ and $b = b + \eta \frac{\partial L}{\partial b}$
 - f. Evaluation: Accuracy = $\frac{\text{Number of correct predictions}}{\text{Total Number of predictions}}$